



IFW

Docket No.: 1975.1028

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Mikihiro NORMURA et al.

Serial No.: 10/782,934

Group Art Unit: 1742

Confirmation No. 7688

Filed: February 23, 2004

Examiner: Unassigned

For: PROCESS FOR EFFICIENT HYDROGEN PRODUCTION BY THERMOCHEMICAL
WATER SPLITTING USING IODINE AND SULFUR DIOXIDE

**SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE
AND REVOCATION OF PRIOR POWERS**

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

The Assignee of the U.S. patent application identified above respectfully requests the recordation of the POWER OF ATTORNEY AND REVOCATION OF PRIOR POWERS. Attached are signed copies of *Power of Attorney by Assignee of Entire Interest and Revocation of Prior Powers* and *Statement and Certification Under 37 C.F.R. §3.73(b)*.

Please address all future correspondence to:

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Washington, D.C. 20005
Telephone: (202) 434-1500
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USPTO Customer No. 21171

If there are any fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date:

December 4, 2006

By:

David M. Pitcher
David M. Pitcher
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**POWER OF ATTORNEY BY ASSIGNEE
AND REVOCATION OF PRIOR POWERS**

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

As assignee of record of certain rights, title, and interest, the undersigned corporation hereby revokes all previous powers of attorney and appoints the attorneys and/or agents of Staas & Halsey LLP, under USPTO customer No. 21,171, to prosecute and transact all business in the U.S. Patent and Trademark Office for the following listed U.S. patent applications:

APPLICATION SERIAL No./ US PATENT No.	FILING DATE/ ISSUE DATE	INVENTOR(S)	TITLE
11/214,044	08/30/2005	Eisuke MINEHARA, et al.	METHOD OF AN ULTRA-SHORT FEMTOSECOND PULSE AND KW CLASS HIGH AVERAGE-POWER LASER FOR PREVENTING COLD-WORKED STRESS CORROSION CRACKING IN IRON STEELS AND ALLOYED STEELS INCLUDING STAINLESS STEELS
10/927,506	08/27/2004	Hiromitsu KIRIYAMA, et al.	A METHOD FOR AMPLIFYING A SOLID-STATE LASER
10/927,059	08/27/2004	Masaki KATAGIRI, et al.	RADIATION OR NEUTRON DETECTOR USING FIBER OPTICS
10/996,036	11/24/2004	Noriaki SEKO, et al.	ADSORBENT FOR RECOVERING USEFUL RARE METALS BY ADSORPTION
11/037,465	01/19/2005	Junji KAWAKANA, et al.	LASER AMPLIFIER
11/049,755	02/04/2005	Ryoichi HAJIMA	METHOD FOR ENABLING HIGH-BRIGHTNESS, NARROW-BAND ORBITAL RADIATION TO BE UTILIZED SIMULTANEOUSLY ON A PLURALITY OF BEAM LINES
11/104,655	04/13/2005	Masaki KATAGIRI	PARTICLE DETECTOR AND NEUTRON DETECTOR THAT USE ZINC SULFIDE PHOSPHORS
11/141,039	06/01/2005	Noriaki SEKO, et al.	PROCESS FOR EMULSION GRAFT POLYMERIZATION AND PRODUCTS THEREOF
10/764,567	01/27/2004	Akira OHZU, et al.	REMOTE PARTICLE COUNTER FOR REMOTE MEASUREMENT OF THE NUMBER AND SIZE DISTRIBUTION OF SUSPENDED FINE PARTICLES IN THE ATMOSPHERE
10/892,131	07/16/2004	Wataru UTSUMI, et al.	PROCESS FOR PRODUCING SINGLE-CRYSTAL GALLIUM NITRIDE
11/471,545	06/21/2006	Nobuo NIIMURA, et al.	APPARATUS FOR CRYSTAL GROWTH OF BIOMACROMOLECULES
10/782,934	02/23/2004	Mikito NOMURA, et al.	PROCESS FOR EFFICIENT HYDROGEN PRODUCTION BY THERMOCHEMICAL WATER SPLITTING USING IODINE AND SULFUR DIOXIDE

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APPLICATION SERIAL NO./ US PATENT NO.	FILING DATE/ ISSUE DATE	INVENTOR(s)	TITLE
10/912,286	08/06/2004	Masaru YOSHIDA, et al.	PROCESS FOR PRODUCING NANO-SPACE CONTROLLED POLYMER ION-EXCHANGE MEMBRANES
10/855,573	05/28/2004	Akira UDAGAWA, et al.	RADIATION-MODIFIED POLY(TETRAFLUOROETHYLENE) RESIN FEEDS AND A PROCESS FOR PRODUCING THE SAME
11/028,203	01/04/2005	Fumio YOSHII, et al.	PROCESS FOR PRODUCING CHITIN DERIVATIVES AND/OR CHITOSAN DERIVATIVES HAVING A CROSSLINKED STRUCTURE
11/350,747	02/10/2006	Mitsuo HARUYAMA	APPARATUS FOR NONDESTRUCTIVE MEASUREMENT OF FISSILE MATERIALS IN SOLID RADIOACTIVE WASTES
10/760,473	01/21/2004	Kamikazu KUME, et al.	METHOD OF PROMOTING THE TAKE OF NITROGEN FIXING MICROORGANISMS TO PLANTS BY MAKING USE OF RADIATION TREATMENT
10/732,232	12/11/2003	Noriaki SEKO, et al.	METHOD OF SYNTHESIZING ZIRCONIUM-LOADED FIBROUS ADSORBENT MATERIALS HAVING PHOSPHORYL GROUPS AND REMOVAL OF OBJECTIONABLE SUBSTANCES USING THE ADSORBENTS
10/372,884 USPN 7,095,029	02/26/2003 08/22/2006	Masaki KATAGIRI	SCINTILLATORS FOR NEUTRON DETECTION AND NEUTRON DETECTORS USING THE SAME
09/873,312	05/28/2004	Masumi OSHIMA, et al.	METHOD OF HIGHLY SENSITIVE ANALYSIS OF NUCLIDES BY MULTIPLE GAMMA-RAY DETECTION
11/214,045	08/30/2005	Masaru YOSHIDA, et al.	A HIGHLY DURABLE POLYMER ELECTROLYTIC MEMBRANE FOR A FUEL CELL HAVING A CROSS-LINKED STRUCTURE
10/922,153	08/20/2004	Shintaro ISHIYAMA, et al.	COMPACT HEAT EXCHANGER MADE OF CERAMICS HAVING CORROSION RESISTANCE AT HIGH TEMPERATURE
11/514,139	09/01/2006	Shintaro ISHIYAMA, et al.	COMPACT HEAT EXCHANGER MADE OF CERAMICS HAVING CORROSION RESISTANCE AT HIGH TEMPERATURE
11/061,722	2/22/2005	Tomoaki TORIYA, et al.	ENDOSCOPIC SYSTEM USING AN EXTREMELY FINE COMPOSITE OPTICAL FIBER
09/940,449 USPN6, 812,469	08/29/2001 11/02/2004	Katagiri; Masaki	TWO-DIMENSIONAL RADIATION AND NEUTRON IMAGE DETECTORS
10/081,533 USPN6, 762,215	02/25/2002 07/03/2004	Akira Udagawa, et al.	RADIATION-MODIFIED POLY (TETRAFLUOROETHYLENE) RESIN FEEDS AND A PROCESS FOR PRODUCING THE SAME
11/013,433 USPN7, 030,379	12/07/2004 04/18/2006	Masaki Katagiri, et al.	METHODS FOR DETECTING PHOTONS, RADIATIONS OR NEUTRONS USING SUPERCONDUCTORS AND METHODS FOR OBTAINING TWO-DIMENSIONAL IMAGES THEREOF

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All correspondence and telephone communications should be directed to:

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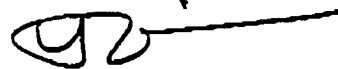
ASSIGNEE CERTIFICATION

The undersigned assignee further states that the registered attorneys and/or agents, identified in the new power of attorney above, are empowered and authorized to sign the statement(s) and certification(s) under 37 C.F.R. §3.73(b) on behalf of the assignee. Attached to this power is/are "CERTIFICATE(S) UNDER 37 C.F.R. §3.73(b)".

JAPAN ATOMIC ENERGY RESEARCH INSTITUTE

Dated November 30, 2006

By:



Name: Yasuhide TAJIMA
Title: Industrial Collaboration
Promotion Department Director



STATEMENT AND CERTIFICATION UNDER 37 C.F.R. §3.73(b)

Honorable Commissioner of
Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This statement hereby certifies that the below-listed patent application is owned by the Assignee, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, by way of Inventors' Assignment, as recorded at the USPTO on February 23, 2004, at **Reel/Frame 015019/0577**.

Application Serial No.	10/782,934
Filing Date	February 23, 2004
Title	PROCESS FOR EFFICIENT HYDROGEN PRODUCTION BY THERMOCHEMICAL WATER SPLITTING USING IODINE AND SULFUR DIOXIDE
Inventors	Mikihiro NORMURA et al.
Attorney Docket Number	1975.1028

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Respectfully submitted,

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